

AMENDMENTS TO THE CLAIMS:

Claims 1-2 (canceled).

Claim 3 (currently amended and reformatted): A laser device, **comprising:**

an optical fiber containing a laser activating substance inside for emitting a laser beam from a distal end portion thereof, **at least a** part of said optical fiber being fixed in a dense state by an optical **medium; and medium;**

a laser light source for exciting said optical fiber by emitting an exciting light,

wherein

the optical medium is obtained by curing an oligomer substance so as to be changed to a polymer substance, said oligomer substance being substantially the same as said polymer substance, said polymer substance including a repeating unit represented by **an empirical a-general** formula $\text{RSiO}_{1.5}$ wherein **said** $\text{RSiO}_{1.5}$ is selected from the group consisting of a polymethyl silsesquioxane, a polymethyl-hydride silsesquioxane, a polyphenyl silsesquioxane, a polyphenyl-methyl silsesquioxane, a phenyl silsesquioxane-dimethyl siloxane copolymer, a polyphenyl-vinyl silsesquioxane, polycyclohexyl silsesquioxane, a polycyclopentyl silsesquioxane, a polyhydride silsesquioxane, a poly(2-chloro ethyl) silsesquioxane, **and** a poly(2-bromo ethyl) silsesquioxane, **mixtures thereof and or** a mixture of **said** at least one **said** $\text{RSiO}_{1.5}$ **member** and a polysiloxane, ~~**said oligomer substance being changed to a substance containing a polymer.**~~

Claim 4 (currently amended and reformatted): A laser device, **comprising: with**

an optical fiber containing a laser activating substance inside for emitting a laser beam from a distal end portion thereof, a part of said optical fiber being fixed in a dense state by an optical **medium; and medium;**

a laser light source for exciting said optical fiber by emitting an exciting light,

wherein

the optical medium contains an amorphous silica produced by curing **a compound with**, ~~**said amorphous silica including**~~ a repeating unit represented by **an empirical a-general** formula $\text{RSiO}_{1.5}$ wherein **said** $\text{RSiO}_{1.5}$ is selected from the group consisting of a poly(2-chloro ethyl) silsesquioxane, a poly(2-bromo ethyl) silsesquioxane, and a mixture thereof.

Claim 5 (previously presented): The laser device according to any of claims 3 and 4, wherein the optical fiber is wound in a spiral shape or a coil-like shape.

Claim 6 (previously presented): The laser device according to any of claims 3 and 4, wherein the optical fiber is fixed in a bundled state.

Claim 7 (previously presented): The laser device according to any of claims 3 and 4, wherein a flat surface is formed on a side surface of the optical fiber such that the optical fiber is fixed in the state with the flat surface closely contacted with one another.

Claim 8 (previously presented): A light signal amplifying device comprising the laser device according to any of claims 3 and 4, having another distal end portion of the optical fiber of the laser device as an input end of a signal light, and the distal end portion as an output end of an amplified light.

Claim 9 (currently amended and reformatted): A laser **device, device** comprising:
an optical fiber wound to form a plurality of adjacent parts; **and**
a bounding layer for bonding and fixing adjacent parts of **said the optical fiber;**
and fiber,
a laser light source for exciting said optical fiber by emitting an exciting light,
wherein the optical fiber further comprises:

a core containing a laser activating substance for emitting a laser beam from a distal end portion of the optical fiber; and

a clad formed around the core,

wherein the bonding layer is an organic-inorganic hybrid material that includes a repeating unit represented by **an empirical a-general** formula $\text{RSiO}_{1.5}$, wherein $\text{RSiO}_{1.5}$ is selected from the group consisting of a polymethyl silsesquioxane, a polymethyl-hydride silsesquioxane, a polyphenyl silsesquioxane, a polyphenyl-methyl silsesquioxane, a phenyl silsesquioxane-dimethyl siloxane copolymer, a polyphenyl-vinyl silsesquioxane, polycyclohexyl silsesquioxane, a polycyclopentyl silsesquioxane, a polyhydride silsesquioxane, a poly(2-chloro ethyl)

silsesquioxane, ~~and~~ a poly(2-bromo ethyl) silsesquioxane, mixture thereof and ~~or~~ a mixture of ~~said~~ at least one said RSiO_{1.5} member and a polysiloxane.

Claim 10 (previously presented): The laser device of claim 9, wherein the organic-inorganic hybrid material forming the bonding layer has a 300 °C or higher thermal decomposition, a 1.40 to 1.56 refractive index and a transparency of 0.5 dB/cm or less loss.

Claim 11 (previously presented): The laser device of claim 9, wherein the organic-inorganic hybrid material is a polyhydride silsesquioxane wherein all organic side chains of the polyhydride silsesquioxane are methyl groups.

Claim 12 (previously presented): The laser device of claim 9, wherein the organic-inorganic hybrid material is a polyphenyl-methyl silsesquioxane wherein the polyphenyl-methyl silsesquioxane has phenyl groups and methyl groups as side chains.

Claim 13 (new): The laser device of any one of claims 3, 4 or 9, wherein the laser light source is selected from the group consisting of a light emitting diode, a laser diode and a flash lamp.